



FACILITY COMPLIANCE AUDIT REPORT

Division of Waste Management Solid Waste Section

UNIT TYPE:												
Lined MSWLF	X	LCID		YW		Transfer		Compost		SLAS		COUNTY: WAKE PERMIT NO.: 92-09 FILE TYPE: COMPLIANCE
Closed MSWLF	X	HHW		White goods	X	Incin		T&P		FIRM		
Closed CDLF	X	Tire T&P / Collection	X	Tire Monofill		Industrial Landfill		DEMO		SDTF		

Date of Audit: March 09, 2010

Date of Last Audit: November 16, 2006

FACILITY NAME AND ADDRESS:

North Wake County MSW Landfill
9004 Deponie Drive
Raleigh, NC 27615

GPS COORDINATES: N: 35.90651 E: -078.57965

FACILITY CONTACT NAME AND PHONE NUMBER:

Tommy Esqueda, Environmental Services Director (919) 856-7444 (main), Tommy.Esqueda@wakegov.com (e-mail)

FACILITY CONTACT ADDRESS:

Tommy Esqueda, Wake County Environmental Services Director
Waverly F. Akins Wake County Office Building
P.O. Box 550
Raleigh, NC 27602

AUDIT PARTICIPANTS:

Bradley Bailey, NCDENR-Solid Waste Section
Shawn McKee, NCDENR-Solid Waste Section
Johnny C. Beal, Wake County Environmental Services-Solid Waste Facility Manager
Lowell Shaw, Wake County Environmental Services-Solid Waste Facility Manager
Lee R. Squires, P.E., Wake County Environmental Services-Solid Waste Facility Manager
Joe Alexander, Wake County Environmental Services
Howard (Jr.) Wiseman, Waste Industries
Dexter Nash, Waste Industries
Charles Leonard, Waste Industries
Antonio Barbee, Waste Industries
James Weathers, Waste Industries

STATUS OF PERMIT:

Original Issue PTO **October 19, 1984**
Amendment 1 (MSWLF, YW Transfer, Intermittent HHW, Multi-Materials Drop-Off **November 22, 1991**
Amendment 2 (PTC Cells 1-5 under new Subtitle D Rules) **October 07, 1993**
Amendment 3 (Cells 1-4 and Transition Plan) **February 05, 1996**
Permit Renewal (Cells 5-6) **March 31, 1998**
Amendment 4 (Cells 7-11) **February 25, 1999**
Amendment 5 (CDLF) **June 22, 2001**
MSW Closure Modification **February 09, 2004**

PURPOSE OF AUDIT:

Partial Audit

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NOTICE OF VIOLATION(S):

None

You are hereby advised that, pursuant to N.C.G.S. 130A-22, an administrative penalty of up to \$15,000 per day may be assessed for each violation of the Solid Waste Statute or Regulations. For the violation(s) noted here, you may be subject to enforcement actions including penalties, injunction from operation of a solid waste management facility or a solid waste collection service and any such further relief as may be necessary to achieve compliance with the North Carolina Solid Waste Management Act and Rules.

STATUS OF PAST NOTED VIOLATIONS:

None

AREAS OF CONCERN AND COMMENTS:

1. The MSWLF-lined (1996) facility 9016 Deponie Drive ceased receiving waste on May 29, 2008. (.1600 rules) Initially, ten down gradient monitor wells (MW-2A, MW-4, MW-4D, MW-6, MW-6D, MW-7, MW-8, MW-9, MW-9D and temporary TW-1) and two up gradient monitoring wells (MW-1A and MW-1D) to monitor Cells 1-4 of the North Wake Landfill Facility's Lined Lateral Expansion. Four surface water sites (SW-2, SW-3, SW-4, and SW-5) were to be monitored.
2. The MSWLF-unlined (1984) facility S.R. 2006 (.1600 rules) was closed in 1997 (01 October 1993) and required to establish a methane monitoring program before 09 October, 1994 as outlined in transition plan.
3. The CDLF (2001) facility, 9004 Deponie Drive sampling under (.500 rules) was closed in 2003. The approved ground water-monitoring plan listed background well (MW-1) and three down-gradient wells (CD-1, CD-2, CD-3).
4. The groundwater and surface water results for March and October 2009 for **CDLF (2001)** were reviewed.
5. The groundwater and surface water results for two (2) background wells (MW-11,11d), twenty-eight (28) monitor wells (MW-5R,6,6d,7,8,8d,9,10,10d,22,23,23d,24,28,28d,29d,30,31,31d,32,33,34,34d,35,36,36d,TB-1a,1ad) and four (4) surface (SW-2,3,7,8) locations for March and December 2009 for **MSWLF (1984-unlined)** were reviewed. Six of the monitor wells (MW-28,28d, 33,34,34d,35) are only sampled during the spring event. Seven of the wells (MW-5R,6,8,9,10,11,TB-1a) are sampled for monitored natural attenuation (MNA) parameters.
6. The groundwater and surface water results for two (2) background wells (MW-11,11d), sixteen (16) down-gradient wells (MW-12,12d,13,14,15,15d,16,17,17d,18,19,20,21,25,25d,26) and three (3) surface water (SW-4,5,6) sampling locations for March and October 2009 for **MSWLF (1996-lined)** were reviewed.
7. Quarterly methane monitoring for MSWLF (1984-unlined) was performed June 15, 2009 for the second quarter revealed exceedances on M-3 and M-16. Those wells monitoring interval was changed to monthly effective July 2009. **Provide the first quarter monitoring results for 2009.** Third quarter results obtained September 23, 2009 revealed exceedances on M-3 and M-10. Monitoring was reported to have been performed on twenty-six (26) LFG monitoring probes and four (4) on-site structures. Fourth quarter results obtained December 09, 2009, revealed exceedances on M-3, M-4 and M-23. First quarter readings were obtained January 11, 2010 were below regulatory limit of 5 percent and was attributed to increasing vacuum applied to the LFG collection system and perimeter migration control system.
8. Methane monitoring records were not available onsite the day of the inspection.
9. Monitor well condition was not inspected due to time constraints and the reason for a partial inspection.
10. **Provide semi-annual leachate sampling results for 2009.**
11. The site is contiguous with permit 92-18HHW collection site, a recycling convenience area for county resident drop-off and a multi-material recycling facility.

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12. The multi-material recycling facility receives materials from residential customers. The items collected are used motor oil, antifreeze, computers/TVs, appliances, white goods, tires, empty pesticide containers, and cooking oil.



13. White goods with Freon are recovered (UK-410, R-12, R-22, R-134) and records are onsite.
 14. Electronics are grouped by type, shrink-wrapped and sent to Synergy in Madison, NC.
 15. Metals and white goods are sent to TT&E.
 16. Paper, cardboard and recyclables are sent to SONOCO.
 17. Scrap tires are sent to Central Carolina Holdings LLC and scrap tire certifications and records are maintained onsite, available and were reviewed.
 18. Cooking oil is picked up by Triangle Biofuels.



Please contact me if you have any questions or concerns regarding this audit report.

Bradley Bailey

Phone: (919) 508-8565

Bradley Bailey
 Environmental Senior Specialist
 Regional Representative

Delivered on : <u>March 24, 2010</u> by	X	E-mail		US Mail		Certified No. <u>11</u>
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cc: Mark Poindexter, Field Operations Branch Supervisor
 Jason Watkins, Central District Supervisor
 Shawn McKee, Compliance Officer
 Jaclynne Drummond, Hydrogeologist
 Donna Wilson, Permitting Engineer
 Ellen Lorscheider, Environmental Programs Manager